BRUHAT BANGALORE MAHANAGARA PALIKE, BYATARAYAPURA ZONE

Executive Engineeer
Byatarayanapura Division
B.B.M.P., Bangalore - 92

DRAFT TENDER SCHEDULE

Issued to :

Original / Duplicate

Name of Work: Detailed Estimate for the Work of Drilling of Borewells, Providing Pump and Motor and laying of pipline at Hegadenagara and thanisandra, Surrounding area in Ward No. 06, Byatarayanapura Sub Division.

Sl. No.	Approved Quantity	Description	Unit	Rates	
				In Figures	In Words
1	2	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting venner or schlumbergers's method,	Each	1938.46	
2		Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) (P.NO-47, I.NO-9.1, PRED 12-13 SR)	Rmtr		
3	**100.00**	0 to 50 m		315.18	
4	**100.00**	50 to 100 m		412.00	
5	**100.00**	100 to 150 m		458.35	
6	**100.00**	150 to 200 m		484.10	
7	**100.00**	200 to 250 m		560.32	
8	**100.00**	250 to 300 m		583.00	
9	**150.00**	300 to 350 M		622.00	
10	**114.00**	350 to 388 M		658.00	
11	100.00	Supplying of ISI Mark 175 mm nominal bore medium black ERW casing pipe of 5mm thick black electric resistance continous welded midle steel tube material confirming to IS 1387/!993 and manufactured from hot rolled steel skelp/stripes in random length of 4 to 7 mtr both ends threaded confirming to IS 554/1985 one end(including of all taxes) (P.NO-III, I.NO-84, PRED 12-13 SR)	Rmtr	1364.75	
12	26.00	Providing and fixing 250mm dia PVC pipe and as per specification and directions. (BWSSB SR 13-14, P.No.53 I.no.1 of sl.no.11.)	Rmtr	1133.00	
13	2.00	175 mm dia M.S. Casing cap (P.NO-III, I.NO-85, PRED 12-13 SR)	Each	103.00	
14	16.00	M.S. Casing pipe collars 'C' Class (P.NO-III, I.NO-86, PRED 12-13 SR)	Each	154.50	

o.	Approved Quantity	Description	Unit	Rates	
				In Figures	In Words
15	2.00	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 20.000 HP 40 stage (P.NO-XXXXIII, I.NO-33, PWD SR 13-14)	Nos	75541.17	
16	**720.00**	Providing, laying & **Galvanized Mild Steel Tube** confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc,. complete 'A' grade(excluding cost of fittings) (PRED Bangalore Circle SE Approved Rates dated. 26.07.2010		530.00	
17	**92.00**	Providing & fixing heavy duty collar (P.NO-III, I.NO-86, PRED 12-13 SR)		159.00	
18	**1000.00**	Supplying and drawing 3 core PVC Sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS: 8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 volts 4 sqmm of 56 strands 0.3mm diaPWD Electrical SR 2010-11 P-49/I. No 29 C-1	Mtr	181.00	
19	**2.00**	Supplying & delivery at site brand new / Essen / Lotus sunsines/Adarsh/ Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc,. completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 15.00 HP with star delta starter (MR)	No.s	14800.00	
20	**44000.00**	Fabricating supplying and mounting MS box of 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better hear description, (providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc,. complete box of 21600 sq cm (P.NO-530, I.NO-39 b, BWSSB SR 13-14)	Sqm	0.34	
21	2.00	Providing & Fixing of clamps set and borewell cap to the pump (MR)	Nos.	690.00	

	Approved Quantity	Description	Unit	Rates	
				In Figures	In Words
22	6.00	Supplying & delivery of brand new best make non return valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark (50mm Gate wheel Valve. (PWD SR 13-14, P.NO.XXIV, Sl.no, 673)	Nos.	1696.00	
23	6.00	Supplying and delivery of brand new best make Gate Valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark . 50mm Gate Valve for distributer pipeline. 50mm dia (PWD SR 13-14, P.NO.XXIV, Sl.no, 659)	Nos.	1213.70	
24	6.00	Providing and fixing of 50mm GI bend to motor (PWD SR 13-14, P.NO.XXXVIII GI FITTINGS TABLE)	Nos.	232.14	
25	6.00	Providing and fixing of 50mm GI Nipple to motor (PWD SR 13-14, P.NO.XXXVIII GI FITTINGS TABLE)	Nos.	110.56	
26	6.00	Providing and fixing of 50mm GI union to the motor ((PWD SR 13-14, P.NO.XXXVIII GI FITTINGS TABLE)	Nos.	237.12	
27	2.00	Labour Charges for end connection (MR)	Per Length	400.00	
28	100.00	Labour charges for erection of new /repaired submersible pumpset along with GI pipes (32/50mm) cable (new submersible pumpset if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (each length = 6.00m) (P.No - 564, I.No - 3, BWSSB SR 13-14)	Nos.	90.64	
29	2.00	Erection of combined panel board meter board with all necessary materials and labour including providing CC 1:3:6 foundation bed etc,. Complete for basement out door type. (MR)	Nos.	475.00	
30	2.00	Supplying and fixing miniature circuit breakers/isolators in existing MCB distribution boards using necessary fixing materials and wiring complete as required, 40 to 63 Amps DP (P.NO - 526, I.NO - 13D (a), BWSSB SR 13-14)	Mtr	906.40	
31	38.00	Supplying and laying of L.T.U.G Cable having aluminiumconductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable (confirming to IS 1554) (P.NO - 553, I.NO - 10 (d), BWSSB SR 13-14)	Mtr	169.95	
32	38.00	Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc,. Complete sutting road surfaces (P.NO - 554, I.NO - 12 (b), BWSSB SR 13-14)	Mtr	56.65	
33	8.00	Supplying and fixing Class-A GI Pipe on pole/ wall/drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm (P.NO - 555, I.NO - 15 (b), BWSSB SR 13-14)	Mtr	294.58	
34	2.00	Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit,/ the pit should be filled with equal proportion of salt and charocal 150 mm alround the pipe to complete depth the connections from the pipe to the conduit etc,. is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 122mm dia (P.NO - 552, I.NO - 7 , BWSSB SR 13-14)	Nos.	1699.50	

	Approved Quantity	Description	Unit	Rates	
				In Figures	In Words
35	2.00	Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmmUG cable filled with necessary bitumen/ insulating compound complete with terminals, clamps, bolts nuts and washers etc, (P.NO - 555, I.NO - 16 (b) , BWSSB SR 13-14)	Nos.	271.92	
36	2.00	Supplying shunt capacitor's confirming to IS 2834, 3phase 400/440 volts grade for power factor improvement of roating machinery capacitor in KVAR rating No's. (MR)	Nos.	1350.00	
37	6.00	Providing and fixing Gun Metal Gate wheel valve confirming to IS specification of approved make as per direction including all lead and lift etc,. Complete. 50mm dia (P.NO - 103, I.NO - 13.79.6, PWD SR 13-14)	Nos	1515.80	
38	2.00	Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides with planks made out on not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc., Size 20 x 20 x 2.5 inches (P.NO - 521, I.NO - 2 (f), BWSSB SR 13-14)	Nos.	311.58	
40		**Maintenance of Borewells**			
41		**A) Rewinding**			
42	3150	Labour Charges of lifting of non functioning submersible Pump set along with cable and GI Pipes (BWSSB SR 14-15, P-558 I-1(i)	Each Length	109.00	
43	45	Transportation of pumping machineries **(P. 56 / I. 10.3.19) PRED SR (2012-13)**	Each	900.00	
44		Rewinding of Submersible Pump Sets			
45	5	(BWSSB SR 14-15 P-58 I-A) 10 HP	No.	4785.00	
46	10	(BWSSB SR 14-15 P-58 I-A) 7.5 HP	No.	3822.00	
47	10	(BWSSB SR 14-15 P-58 I-A) 12.5 HP	No.	5885.00	
48	20	(BWSSB SR 14-15 P-58 I-A) 15.0 HP	No.	5800.00	
49		**B) Replacement of Motor Parts:**			
50	400	Pump Bowls (BWSSB SR 14-15 P-58 I-B)	No.	308.00	
51	45	Intermediate Piece (I.P) With IP Leaded Bronxe bush (BWSSB SR 14-15 P-58 I-B2)	No.	715.00	
52	45	Upper Flange **(BWSSB SR 14-15 P-59 I-C3)**	No.	330.00	
53	45	Lower Housing **(BWSSB SR 14-15 P-59 I-C4)**	No.	539.00	
54	200	Guide vane **(BWSSB SR 14-15 P-58 I-B5)**	No.	192.50	
55	45	Impeller Shell moulded with aluminium Bronze) (BWSSB SR 14-15 P-58 I-B6)	No.	264.00	
56	65	Discharge outlet (D.O) Bearing D.O Steel Bush **P. (BWSSB SR 14-15 P-58 I-B7)**	No.	522.50	
57	35	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) **(BWSSB SR 14-15 P-58 I-B10)**	No.	660.00	
58	45	Pump Couping (Stainless Steel) (BWSSB SR 14-15 P-58 I-B12)	No.	341.00	
59	200	Stud and Nuts (BWSSB SR 14-15 P-59 I-C8)	Each	88.00	
60	25	Motor Base With Pin (BWSSB SR 14-15 P-59 I-C11)	Each	407.00	
61	67	Starter (with one year Guarantee) **P No. 55 / I No. 10.3.3 PRED SR (2012-13)**	No.	5050.00	

	Approved Quantity	Description	Unit	Rates	
				In Figures	In Words
62	30	Rotor (with one year Guarantee) **P No. 55 / I No. 10.3.6) PRED SR (2012-13)**	No.	4700.00	
63	45	Carbon Housing **P. No. 56 / I No.10.3.12 PRED SR (2012-13)**	No.	475.00	
64	45	Thrust bearing block assembly complete with Segment bearing pad.**P. No. 55 / I No.10.3.13 PRED SR (2012-13)**	No.	1150.00	
65	45	Oil Seal **P. No. 54 / I No.10.2.3 PRED SR (2012-13)**	No.	125.00	
66	45	Oil Seal Steel Bush **P. No. 54 / I No. 10.2.4 PRED SR (2012-13)**	No.	150.00	
67	65	D.O Bearing P. No. 44 / I No. 10.2.7 PRED SR (2012-13)	No.	285.00	
68	325	Steel Bush **P. No.55 / I No. 10.2.9 PRED SR (2012-13)**	No.	150.00	
69	200	Allen Screw P. No.44 / I No. 10.2.9 RDPR SR (2012-13)	No.	25.00	
70	35	Pump Key (Stainless Steel) P. No. 45 / I No. 10.2.11 RDED SR (2012-13)	No.	125.00	
71	25	Non – return valve (NRV) assembly complete with rubber 'O' Ring **P. No. 55 / I No. 10.2.14 PRED SR (2012-13)**	No.	1350.00	
72	45	Cable Guard **P. No. 55 / I No. 10.2.15 PRED SR (2012-13)**	No.	150.00	
73	45	Strainer P. No. 45 / I No. 10.2.15 RDED SR (2012-13)	No.	150.00	
74	45	Brass Filter **P. No. 55 / I No. 10.2.17 PRED SR (2012-13)**	No.	250.00	
75	45	Labour Chargesw (Over Hauling Only) P. No. 45 / I No. 10.2.18 PRED SR (2012-13)	No.	556.00	
76	40	Re-erection charges of pumping machineries including overhauling and pointing **P. No. 56 / I No. 10.3.20 PRED SR (2012-13)**	Each	950.00	
77	60	Lock Ring P. No. 45 / I No. 10.3.11 PREC SR (2012-13)	Each	85.00	
78	40	a) Carbon Housing P. No. 46 / I No. 10.3.12 APRDED SR (2012-13)	Each	475.00	
79	40	Top Carbon/Ferrodo padding P. No. 46 / I No. 10.3.12 APRDED SR (2012-13)	Each	150.00	
80	40	Bearing (Gunmetal) Centrifugal) Cast Aluminium Bronxe, Beaing bush P. No. 46 / I No. 10.3.16 APRDED SR (2012-13)	Each	400.00	
81	90	Circillps P. No. 45 / I No. 10.3.17 PREC SR (2012-13)	Each	50.00	
82		**Genaral Itmes**			
83	1775.00	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 49/ I No. 29-b(1) **4 Sqm mm of 56 strands 0.3mm dia Group - A KPWD Electrical SR 2010-11**	Mtr	185.00	
84	150.00	Supplying and fixing miniature circuit breakers/isolators in existing MCB distribution boards using necessary fixing materials and wiring complete as required, 40 to 63 Amps DP (P.NO - 526, I.NO - 13D (a), BWSSB SR 13-14)	Nos.	906.40	
85	360.00	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... **P No. 32/I No 3b KPWD Electrical SR 2010-11**	NO.	150.00	

	Approved Quantity	Description	Unit	Rates	
				In Figures	In Words
86	90.00	Supplying & delivery of brand new best make non return valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark (50mm Gate wheel Valve. (PWD SR 2015-16, P.NO.XXIV, Sl.no, 673)	No.	1600.00	
87	90.00	Providing and fixing of 50mm GI bend to motor (PWD SR 2015-16, P.NO.XXXVIII GI FITTINGS TABLE)	Nos.	219.00	
88	90.00	Providing and fixing of 50mm GI Nipple to motor (PWD SR 2015-16, P.NO.XXXVIII GI FITTINGS TABLE)	Nos	104.30	
89	120.00	Providing and fixing of 50mm GI union to the motor ((PWD SR 2015-16, P.NO.XXXVIII GI FITTINGS TABLE)		223.70	
90	337.50	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.4, PWD SR 15-16)	cum	283.02	
91		Providing and installing at site of work 75mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.NO - 102, I.NO - 13.73.1, PWD SR 15-16)	Mtr		
92	1000.00	75 mm dia 6 KSC PVC pipe		366.76	
93	337.50	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I.NO - 2.11, PWD SR 15-16)	cum	76.32	
94	16.00	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) **50mm** nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 **P. 97 / I.13.37 PWD SR - 2015-16**	Each	2120.00	
95	3500.00	Threading of GI Pipes 50mm Dia P. No. 15 / I No.3.11.6 PRED SR (2012-13)	Mtr	25.00	

ಕರಡು ಟೆಂಡರ್ ಪಡ್ಯೂಲ್‌ನ್ನು
ಶಿದ್ದುಪಡಿಗಳ ಸಂಖ್ಯೆ.....(Nil)
ಶಿದ್ದುಪಡಿ ~~ಮಾಡಿ~~/ಇಲ್ಲದೆ
ಅನುಮೋದನೆ ನೀಡಿರುತ್ತಾದೆ

06-09-16

Chief Engineer
Yelahanka Zone
Bruhath Bangalore Mahanagara
Rangalore 92

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore - 92